

The State of New Hampshire  
**Department of Environmental Services**  
**Thomas S. Burack, Commissioner**



*Celebrating 25 Years of Protecting  
New Hampshire's Environment*

February 15, 2012

John M. MacDonald, Vice President - Generation  
Public Service Company of New Hampshire  
P.O. Box 330  
Manchester, NH 03105-0330

Re: Hazardous Waste Limited Permit Application  
Merrimack Station

Dear Mr. MacDonald:

The New Hampshire Department of Environmental Services, Waste Management Division (DES) has completed a review of your application to permit the treatment of hazardous wastewaters at Public Service Company of New Hampshire -Merrimack Station (PSNH). The requested Hazardous Waste Limited Permit, Permit No. DES-HW-LP-2012-02, is herewith granted per the enclosed authorization, pursuant to RSA Chapter 147-A and Section Env-Hw 304.04(k) of the New Hampshire Hazardous Waste Rules and subject to the request for additional information detailed below.

We understand from your letter dated July 21, 2011, that fly ash waste, bottom ash waste, slag waste, and flue gas emission control waste generated primarily from the combustion of coal or fossil fuels are exempted from regulation per New Hampshire Hazardous Waste Rule Env-Hw 401.03(b)(4) and Subtitle C of RCRA 40 CFR 261.4(b)(4). In addition, some wastes produced in conjunction with the burning of fossil fuel and co-disposed or co-treated with coal combustion waste (such as fly ash) are exempted from regulation per EPA guidance (Bevill Amendment). Given our review of PSNH's limited permit renewal application, DES has determined that the wastewaters generated from the regeneration of the ion exchange system, tank cleaning, waterside boiler cleaning, and floor drains are not exempt from regulation under the New Hampshire Hazardous Wastes. These wastestreams are considered low-volume wastes that are not uniquely associated with fossil fuel combustion and would not be accorded a Bevill exemption (Reference: Federal Register / Vol. 65, No. 99 / Monday, May 22, 2000). As applied to PSNH, if any of the wastestreams referenced above is a hazardous waste co-managed with exempt wastewater (Bevill Waste) this will result in a loss of the Bevill Exemption.

DES requests that PSNH conduct a hazardous waste determination on each individual wastestream, (i.e., wastewaters generated from the regeneration of the ion exchange system, tank cleaning, waterside boiler cleaning, and floor drains) at the point at which they are generated. Given our review of your process description, DES believes that an appropriate hazardous waste determination would include an analysis for pH and Toxicity Characteristic Leaching Procedure ("TCLP") metals. PSNH will also need to conduct a hazardous waste determination on any sludges generated from the treatment of these wastewaters. If the sludges are determined to be a hazardous waste then the wastewaters from which they were generated cannot be commingled with the fly ash wastewaters if PSNH wishes to apply the

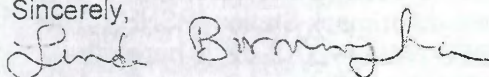


exemption to the fly ash sludge. Some of these wastewaters and sludges are not routinely generated, thus, DES requests that within sixty (60) days from the date each wastestream is generated, that PSNH provide a copy of the analysis to DES. If the wastewaters and sludges are determined to be non-hazardous, then the New Hampshire Hazardous Waste Rules would not apply.

In addition, DES reviewed the analytical results submitted for the "chemical cleaning composite drain" (i.e., sample ID 102258.01, sampled 5/12/11), and the total concentration of chromium was 18 mg/l. Env-Hw 403.06 specifies that a waste is a characteristic hazardous waste with the waste number of D007 if, using the TCLP, the extract of a representative sample of the waste contains chromium at a concentration  $\geq 5$  mg/l. PSNH will need to re-sample the "chemical cleaning composite drain" and analyze the sample for TCLP metals. If this wastestream is determined to be a hazardous waste then PSNH would need to do additional treatment to precipitate out the chromium. If the sludge generated from treatment is determined to be a hazardous waste and is co-managed with a Bevill Waste it will result in a loss of the Bevill Exemption.

Feel free to contact me if you have any questions regarding the conditions of this Limited Permit.

Sincerely,



Linda R. Birmingham, Waste Management Engineer  
Hazardous Waste Management Bureau  
Tel: (603) 271-5328  
Fax: (603) 271-0869  
E-mail [Linda.Birmingham@des.des.nh.gov](mailto:Linda.Birmingham@des.des.nh.gov)

Attachments: HW Limited Permit No.: DES-HW-2012-02  
Permit Process Questionnaire  
Limited Permit FAQs

cc: DB/RCRA/HWLP/Archive/Database  
A. Auclair, PSNH Merrimack Station  
D. Houlihan, USEPA Region I  
S Spanos, DES WD

ec: John Duclos, Administrator, HWMB  
Michael Wimsatt, P.G., Director, WMD  
Pamela Hoyt-Denison, P.E., Administrator, WMP  
Mike Guilfooy, Administrator, WMD





## HAZARDOUS WASTE LIMITED PERMIT

as authorized by the  
NH Department of Environmental Services, Waste Management Division (Department)  
pursuant to RSA 147-A and Env-Hw 304 of the New Hampshire Hazardous Waste Rules (Rules)

### I. PERMIT/FACILITY IDENTIFICATION:

Permit No.: DES-HW-LP-2012-02

Permittee: Public Service Company of New Hampshire-Merrimack Station

Facility Location: 97 River Road, Bow, NH

EPA ID No.: NHD000791509

Type of Treatment: Wastewater Treatment Unit/Elementary Neutralization Unit

Wastewaters Approved for Treatment: Corrosive wastewaters from demineralizer regeneration, chemical tank draining/cleaning, boiler water-side cleaning, and rinse waters from cleaning of flue gas desulfurization "scrubber" absorber tank, as listed in the limited permit application referenced in Section II.

### II. FILE REFERENCE/RECORD OF APPLICATION:

Date Received: July 25, 2011; July 26, 2011; August 26, 2011; August 29, 2011.

### III. TERMS AND CONDITIONS: The facility shall comply with the following terms and conditions:

- (1) All operation and closure requirements in Env-Hw 304.04(e), (f), (g), (h), (i), and (j).
- (2) Requirement for Hazardous Waste Generators in Env-Hw 500.
- (3) Manifest Requirements in Env-Hw 510.
- (4) Recordkeeping and Reporting Requirements in Env-Hw 512.
- (5) Permittee shall not discharge wastewater classified as a hazardous waste as defined in Env-Hw 400.
- (6) This Limited Permit does not permit receipt or treatment of hazardous wastes generated from off-site.
- (7) NPDES Permit No. NH0001465 dated June 25, 1992 (renewal submitted March 10, 1997).
- (8) Groundwater Management Permit No. GWP-198400065-B-003 (expires February 11, 2012).
- (9) Hazardous wastestreams not uniquely associated with fossil fuel combustion shall not be commingled with exempt wastewaters if PSNH wishes to continue to apply the Bevill Exemption to the exempt wastewaters.
- (10) Permittee shall conduct a hazardous waste determination on each wastestream, identified in Section I above, and on any sludge generated from the treatment of these wastewaters. Analytical results shall be submitted to DES within sixty (60) days from the date the wastewater and/or sludges are generated.
- (11) Permittee shall conduct a hazardous waste determination on non-routine wastewaters (i.e., tank cleaning, waterside boiler cleaning, and flue gas desulfurization "scrubber" absorber tank cleaning) each time they are generated. Analytical results shall be submitted to DES within sixty (60) days from the date the wastestream is generated.

### IV. EXPIRATION DATE: In accordance with Env-Hw 304.04(q), this Limited Permit shall expire on February 15, 2017. Renewal of this Limited Permit is subject to the requirements of Env-Hw 304.04(r).

### V. AUTHORIZATION SIGNATURE: Pursuant to RSA Chapter 147-A and Env-Hw 304 of the New Hampshire Hazardous Waste Rules, this Limited Permit is hereby issued to the permittee identified in Section I above to treat hazardous wastewaters that are generated only at the facility location as identified in Section I above. Treatment of wastewaters and operation of the unit(s) shall be as described in documents cited in Section II above, subject to the terms and conditions provided in Section III above.

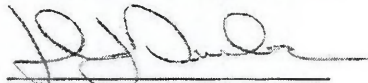
Failure to comply with the terms and conditions of the Limited Permit could result in civil, criminal and/or administrative penalties, suspension, or revocation of the Limited Permit. No liability is incurred by the State of New Hampshire by reason of any approval of this Limited Permit. Approval by the Department is based on plans and specifications provided by the applicant. No warranty or guarantee is intended by reason of any advice given by the Department or its staff.





This permit shall not eliminate the permittee's obligation to obtain all requisite federal, state or local permits, licenses or approvals, or to comply with all other applicable federal, state, district, and local permits, ordinances, laws, approvals or conditions relating to the operation of the facility.

**BY EXERCISING ANY RIGHTS UNDER THIS AUTHORIZATION, THE PERMITTEE HAS AGREED TO ALL TERMS AND CONDITIONS OF THIS PERMIT.**



John J. Duclos, Administrator  
Hazardous Waste Management Bureau  
Waste Management Division

February 15, 2012  
Date

